

LCN Fund Full Submission
Supplementary Answer Form

Tick if this answer is Confidential:

Tick if this answer has been provided verbally:

Project code:	UKPNT205	Question Number	UKPNT205 -31
Question date	3 October 2013	Answer date	11 October 2013
Submission section question relates to	Expert panel bilateral		
Topic	Equipment		
Question	What data do you have to validate table nine on page 57 of your Full Submission. In addition, what data do you have that demonstrates that people in the demographics you wish to consider would be likely to utilise those technologies listed on page 57.		
Notes on question			
Answer	<p>V-CEE will focus on four key appliance categories to access the potential technical savings from energy efficiency and load shifting that the targeted fuel poor households are capable of; as highlighted in the UKPNT205- Q16 response.</p> <p>The project will seek to access this technical potential from household appliances through incentivising Demand Side Response with the introduction of a Time-of-Use tariff and making available simple energy saving devices.</p> <p>For the energy saving devices, the project has proposed six tools as outlined in Table 9 on page 57 of the full submission. The cost of the tools drew upon marketing materials and publications; volume discount was applied where relevant. The benefits of each tool were calculated using the same actual average peak unit price in 2012 (taken from <i>Energy Trends: March 2013, special feature articles - Domestic energy bills in 2012: The impact of variable consumption</i> (2013, DECC)) and the below equation:</p> $\text{Tool benefit} = \text{Watt saving} \times h \text{ day} \times \text{£ kWh} \times \frac{\text{Days in year}}{1000}$ <p style="text-align: center;">Equation 1: Determines benefit of energy saving device.</p> <p>The <i>Watt Saving</i> and <i>h/day</i> utilisation figures were specific to each tool. These figures were generated through predictions and assumptions that have been outlined in Appendix H – Cost Benefit Analysis.</p>		

The household appliance categories that the project will focus on were validated with the projects' trial participant pool (fuel poor residents of Tower Hamlets Homes and Poplar HARCA both of which are in the London Borough of Tower Hamlets) by two means:

1. A survey of thirteen tenants - eleven Poplar HARCA tenants and two Tower Hamlets Homes tenants.
2. Estimations provided by Advisors who operate on behalf of the East End Energy Fit Project in one of the programmes Centre of Excellence, the Bromley by Bow Community Centre. The Advisors are local residents and live within the London Borough of Tower Hamlets, therefore have good household insights of the surrounding communities.

Please see the below table that outlines the findings of both of these activities:

Appliance type	In scope of V-CEE	DSR Offered	Energy Efficiency Offered	Tenant View East Energy Fit Project	Tenant View 13 tenants surveyed
Lighting	Yes	N/A	CFL Bulb	Data not available	<ul style="list-style-type: none"> • 8 use Incandescent bulbs • 8 use CFL bulbs
Standby power	Yes	N/A	TV standby saver and Timer socket	<ul style="list-style-type: none"> • 90% have TVs • 40% have computers • 50% have laptops 	<ul style="list-style-type: none"> • 12 have at least one TV • 7 have more than one TV • 3 have a desktop computer • 8 have a laptop
Wet appliances	Yes	Time switches, tariffs and educational materials	N/A	<ul style="list-style-type: none"> • 80-90% have washing machines • 10-15% have clothes dryers • 5-10% have a dishwasher 	<ul style="list-style-type: none"> • 12 have a washing machine • 2 have a clothes dryer • 1 has a dishwasher
Water Heating appliances	Yes	Time switches, tariffs and educational materials	N/A	Data not available	Data not available
Computing	No	The project will not assist with the upgrading of appliances to A+ or A++		Tenants advised when considering a new fridge or freezer to look at its energy savings	<ul style="list-style-type: none"> • All 13 have a fridge • 12 have a freezer
Cold appliances	No	The project will not assist with the upgrade of desktops to laptops		As stated in Standby power row	

Table 1: Validation of targeted household appliance categories

Table 1 highlights that the household appliance types that the project is targeting are broadly available with the trial area households. Furthermore, a third of the thirteen tenants surveyed said that they would actively consider using energy saving appliances / tools.

Attachments

Verbal Clarifications (Consultants)	
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